

The use of trees in Agriculture, by P. V. Turchin,
N. A. Shum, et al., 21 pp.
Moscow, 1954, Agrusskizy, no 4, Aug 1954, pp 1-21.
SFR 21000

USSR
Agriculture
1954

P. V. Turchin

275,457

Determination of Small Quantities of
Thallium in Ores, by I. A. Blyum. 67
RUSSIAN, per, Zavod Lab, Vol 23, 1957,
pp 283-284. Zavod Lab
*AEC

I. A. Blyum

Sci-Materials
Feb 69

Extraction-Photometric Methods of Analysis ~~Using~~
Basic Dyes(Review), by I. A. Blyum, N. N. Pavlova,
12 pp.

RUSSIAN, per, Zavod Lab, Vol XXIX, No 12, 1963,
pp 1407-1418.

Instr Soc of Amer

Sci -
Jul 64

262,776

The Use of Arylmethane Dyes in Inorganic Analysis
(Determination of Sb, Tl, and In), by
I. A. Blyum, I. T. Solov'yan, 5 pp.

RUSSIAN, per, Izvot Lab, Vol XXVII, No 8,
1961, pp, 990-995.

ISA

Sci

Jun 2 62

800,474

Separation and Determination of Small Amounts of
Selenium and Tellurium, by A. I. Ivankova,
I. A. Blyum, 4 pp.

^b
RUSSIAN, per, Zavod Lab, Vol XXVII, No 4, 1961,
pp 371 - 376.

ISA

196, 107

Sol
Mar 62

The Determination of Boron With Crystal Violet, by
I. A. Blyum, T. K. Dushina, 5 pp.

RUSSIAN, per, Zavod Lab, Vol XXVII, No 6, 1961,
pp 644-649.

ISA

Sci
May 62

194,682

Determination of Small Quantities of Tin in Ores,
by I. A. Blyum, N. G. Zyryanova.

RUSSIAN, no per, Zavod Lab, Vol XXII, No 1, 1956,
pp 46, 47.

Henry Bratcher

No 4003

\$1.90

53,208

Bci - Min/Metals

Sep 57

1
New Fluorometric Method for Determining
Indium, by I. A. Blyum, T. K. Dushina, 3 pp.

RUSSIAN, per, Zavod Lab, Vol XXV, No 2,
1959, pp 137-139.

Instru Soc of Amer

Sci

113,481

A SOVIET VIEW OF THE DEVELOPMENT OF REVOLUTION,
BY N. ELTZIN, 8 PP.

MOSCOW, U.S.S.R., NOVEMBER 1962, 27 OCTOBER 1962,
PP 2-4.

JAN 21, 63

1000
1000
1000 63

211,698

Experimental Histological Study of the Epithelia
of the Anal Area in Rats, by A. Zh. Elyumberg, 1 p.

RUSSIAN, no par, Dyul Ekaper Biol i Med, Vol XLI,
No 6, Jun 1956, pp 70.

Consultants Bureau

Sci - Medicine
Nov 57

55, 282

Differences in the Mechanism of Liquid and
Gaseous Phase Oxidation of Ethyl Alcohol, by
E. A. Elyumberg, G. E. Zaykov, Z. K. Mayzus,
4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXXIII,
No 1, 1960, pp 144-147.

CB

RTS/RT-344 149,211

Sci

Apr 61

Liquid-and Gas-Phase Oxidation of Ethyl Alcohol
Under Comparable Conditions, by E. A. Blyumberg,
G. E. Zaikov, Z. K. Maizus, 8 pp.

RUSSIAN, per, Kinetika i Kataliz, Vol I, No 4,
1960, pp 510-516.

CB

Sci

172,761

Oct 61

Kinetics and Chemistry of the Reaction of Ether With
Nitrogen Dioxide in the Gas Phase, by E. A. Blyum-
berg, V. L. Pikayeva, N. M. Emanuel, 27 pp.
UNCLASSIFIED

RUSSIAN, no per, Zhur Fiz Khim, Vol XXIX^X, No 9,
Sep 1955, 1569-1581. CIA 9015802

NIH

58,092

Sci - Chem

Feb 58

TT-64-10105

Blyumberg, E. A., Norikov, Yu. D., and Smirnov, E. S.

APPLICATION OF GAS-LIQUID CHROMATOGRAPHY FOR THE ANALYSIS OF THE OXIDATION PRODUCTS FROM SOME HYDROCARBONS. [1963] 6p 4.cfs
Order from OIS, SLA, or ETC \$1.10 TT-64-10105

Trans. of Nefteldumlya (USSR) 1962, v. 2 [no. 6]
p. 397-900. (Abstract available)

DESCRIPTORS: *Hydrocarbons, *Butanes, Oxidation, Peroxides, Alcohols, Carboxylic acids, Esters,
*Chromatographic analysis.

The method of gas-liquid chromatography was applied for analysis of the neutral products from liquid-phase oxidation of n-butane. A method of separation and of quantitative determination was developed for the oxidation products of high boiling hydrocarbons, by application of chromatograph with microcatharometer, which permit measurements at 400 C. (Author)

I. Blyumberg, E. A.
II. Norikov, Yu. D.
III. Smirnov, E. S.

(Chemistry--Analytical, TT,
v. 11, no. 5)

Office of Technical Services

Blyumberg, E. A., Malievskii, A. D., and
Emanuel, N. M.
EFFECT OF SOLVENTS ON THE MECHANISM OF
LIQUID-PHASE OXIDATION OF n-BUTANE. [1964] 7p
Order from ATS \$13.75 ATS-65R74R

Trans. of Neftekhimiya (USSR) 1963, v. 3, no. 4,
p. 541-547.

(Chemistry--Organic, TT; v. 11, no. 12)

TT-64-12751

I. Blyumberg, E. A.
II. Malievskii, A. D.
III. Emanuel, N. M.
IV. ATS-65R74R
V. Associated Technical
Services, Inc.,
East Orange, N. J.

283375

Office of Technical Services

Blyumberg, E. A., Norikov, Yu. D., and
Emanuel, N. M.
THE ROLE OF SURFACE IN THE CHAIN-PROPAGAT-
ING REACTION IN THE LIQUID-PHASE OXIDATION
OF n-BUTANE. [1964] 5p
Order from ATS \$8.00

ATS-85R74R

Trans. of Akad[emiya] Nauk SSSR. Dokl[ady] 1963,
v. 151, no. 5, p. 1127-1130.

(Chemistry--Organic, TT, v. 11, no. 12)

TT-64-12752

I. Blyumberg, E. A.
II. Norikov, Yu. D.
III. Emanuel, N. M.
IV. ATS-85R74R
V. Associated Technical
Services, Inc.,
East Orange, N. J.

1283407

Office of Technical Services

Gaseous Initiation with Ozone in the Oxidation
of Paraffin, by E. A. Blyumberg, V. G.
Voronkov, N. M. Emanuel', 5 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 1, 1959, pp 25-29.

Consultants Bureau

Sci - Chem

Apr 60

113,178

Concentration Limits for Flame Propagation in
Mixtures of Hydrogen and Oxides of Nitrogen,
by E. A. Blyumberg, A. N. Pomansky, N. M.
Emanuel, 8 pp.

RUSSIAN, no per, Iz Ak Nauk, Otdel Khim Nauk,
No 7, 1956, pp 764-770.

Consultants Bureau

Sci - Chem
May 57

47,214

Polarographic Determination of Ethylnitrate and
Ethylnitrite in Aqueous Solutions, by E. A.
Blyumberg, V. L. Pikayeva, 6 pp.

Full translation.

RUSSIAN, bimo per, Zhur Anal Khim, Vol X, No 5,
1955, pp 310-314. CIA C 41024

Consultants Bureau

Scientific - Chemistry
Mar 56 CTS/dex

32,007

Kinetic Peculiarities of the Oxidation of
Acetaldehyde in a "quenched" Reaction Mixture, by
E. A. Blyumberg, N. M. Emanuel, 4 pp.

RUSSIAN, thrice-per, Dok Ak Nauk SSSR, Vol
LVII, No 4, 1947, pp 361-363.

26,710

Sci Trans Center
RT-2383

Scientific - Chemistry

Sep 55 CTS/DEX

Initiating Effect of Endon Radiation in the Oxidation of Isodecane (2,7-Dimethyloctane). by E. M. Emanuel', E. A. Elyuzber', D. M. Ziv, V. L. Pikayeva, 3 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXIX, No 2, 1958, pp 1183-.

Consultants Bureau

Sci - Chem

May 59

88,861

Effect of additions of Hydrocarbons on the
Concentration Limits for Flame Propagation
in Gas Mixtures Containing Hydrogen, by
E. A. Blyumberg, V I. Vasilyev, N. M. Emanuel,
8 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 10, 1957, pp 1174-1180.

Consultants Bureau

Sci - Chem

86,932

May 99

Oxidation of Paraffin Initiated by Nitrogen Dioxide,
by E. A. Blyumberg, N. M. Emanuel, 10 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 3, 1957, pp. 274-~~278~~ 283.

Consultants Bureau

Sci - Chem

May 59

86,846

Blyumberg, E. A., Malievskii, A. D., and
Emanuel, N. M.
EFFECT OF SOLVENTS ON THE MECHANISM OF
LIQUID-PHASE OXIDATION OF n-BUTANE. [1964] 7p
Order from ATS \$13.75 ATS-65R74R

Trans. of Neftskhimiya (USSR) 1963, v. 3, no. 4,
p. 541-547.

(Chemistry--Organic, TT; v. 11, no. 12)

TT-64-12751

I. Blyumberg, E. A.
II. Malievskii, A. D.
III. Emanuel, N. M.
IV. ATS-65R74R
V. Associated Technical
Services, Inc.,
East Orange, N. J.

1283375

Office of Technical Services

TT-64-12752

Blyumberg, E. A., Norikov, Yu. D., and
Emanuel, N. M.
THE ROLE OF SURFACE IN THE CHAIN-PROPAGAT-
ING REACTION IN THE LIQUID-PHASE OXIDATION
OF n-BUTANE. [1964] 5p
Order from ATS \$8.00

ATS-85R74R

Trans. of Akad[emiya] Nauk SSSR. Dokl[ady] 1963,
v. 151, no. 5, p. 1127-1130.

I. Blyumberg, E. A.
II. Norikov, Yu. D.
III. Emanuel, N. M.
IV. ATS-85R74R
V. Associated Technical
Services, Inc.,
East Orange, N. J.

1283407

(Chemistry--Organic, TT, v. 11, no. 12)

Office of Technical Services

A Study of the Relation Between the Expenditure of ~~the~~
Material in the Reactor and the Volume of the Solution
During Development and Clearing of Cine-Film, by
I. Blyumberg, G. Bulochnikova, and N. Solodovnikova,
5 pp.

RUSSIAN, per, Zhur Prik Khim, Vol XXX, No 7 1957,
pp 1016-1021.

Consultants Bureau

Sci - Chem

Oct 58

74, 099

Kinetics of Super Highspeed Processing of Motion
Picture and Photographic Materials, by I. B. Blyumberg.
RUSSIAN, per, Zh. Nauch. Prikl. Fotogr. Kinematogr.
Vol 9, No 5, 1964, pp 336-341.
GB 131/T 4625

Sci -
Aug 67

I. B. Blyumberg.
335,834

- TT-65-13724

Field 14E

Blyumberg, I. B.; Dimitrov, R. V.; Usanov, Yu. E.
KINETICS OF SUPER HIGHSPEED PROCESSING OF
MOTION PICTURE AND PHOTOGRAPHIC MATERIALS.
14p, 6 refs.

Order from SLA: \$1.60 as TT-65-13724

Trans. of Zhurnal Nauchnoi i Prikladnoi Fotografii i
Kinematografii (USSR) v9 n5 p336-41 1964.

MR 664

I-70/64

Investigation of the Dependence of Photographic-
Development Kinetics on the Duration of Process
and Thickness of the Boundary Layer, by
I. B. Blyumberg, N. A. Ginno, *6 pp.*

RUSSIAN, 5 pp.

2
JPRS/DC-10685

Sci - Phys
Jul 64

The Problem of the Quality of Cinema Images, by I. B.
Blyumberg, T. M. Zyazina, 12 pp.

RUSSIAN, per, Tekh Kino i Televideniya, Vol V (8),
1961.

CIA/FDD XX-1238
NOT RELEASABLE TO FOREIGN NATIONALS

Sci

211, 434

Aug 62

USIB INTERNAL USE ONLY

NCH-202 510

Field 14E

Blyumberg, I. B.; Zyazina, T. M.
INVESTIGATION OF THE QUALITY OF CINEMATOGRAPHIC
IMAGES. 1965, 12p. TC-1228.
Order from TC: \$12.00 as TC-1228

Trans. of Uspekhi Nauchnoi Fotografii (USSR) v10 p50-7
1964.

I. Trans-Chem
Knoxville, Tenn.

Investigation of the Quality of
Cinematographic Image, by I. B. Blyumberg,
T. M. Zyazina, 12 pp.
RUSSIAN, per, Uspekhi Nauch Foto, Ak
Nauk Otd Khim Nauk, No 10, 1964,
pp 50-57.
CIA/FDD XX-1768
NO FOREIGN DISSEM

Sci
Jan 4&66
USIB Internal Use Only

294,722

Mechanism of Penetration of Components
of Processing Solutions Into Photographic
Emulsion, by I. B. Rlyumberg,
I. M. Davydkin.

RUSSIAN, per, Zhur Nauch Prik Fotografii
Kinematografii, Vol VIII, No 1, 1963,
pp 3-10.

NLL Ref: 5826.4 1963 (10,416) (LOAN).

Sci - Phys
Feb 64

248, 571

Kinetics of the Fixing Process With Photographic
Materials, by I. B. Blyumberg, V. G. Ivanova, 22 pp.

RUSSIAN, per, Zhur Nauch Priklad Fotograf i Kinemat;
Vol VI, No 1, 1961, pp 39-49.

CIA/FDD XX-1166

NOT RELEASABLE TO FOREIGN NATIONALS

Sci

198, 443

May 62

USIB INTERNAL USE ONLY

The Effect of the Kinetics of Clearing on the Nature
of the Photographic Image, by I. B. Rlyumberg, N. P
Varshavskaya, T. A. Vasil'yeva, 16 pp.

RUSSIAN, per, Zhur Nauch i Prik Fotograf i Kinematog.
Vol VI, 1961, pp 172-177.

CIA/FDD XX-1105

NOT RELEASABLE TO FOREIGN NATIONALS

Sci

Mar 62

185, 965

USIB INTERNAL USE ONLY

~~Blyumberg, I. B.~~, Zyzina, T. M., and
Teregulov, G. I.

A NEW METHOD OF DETERMINING THE SHARP-
NESS OF A PHOTOGRAPHIC IMAGE. [1963] 5p.
Order from ATS \$6.25 ATS-52P66R

Trans. of Zh[urnal] Nauchn[oi] i Prikl[adnoi]
Fotogr[afii] i Kinetogr[afii] (USSR) 1962, v. 7, no. 4,
p. 268-271.

DESCRIPTORS: *Photographic images, Images, Visi-
bility, Test methods.

(Materials--Photographic, TT, v. 9, no. 8)

63-12831

I. Blyumberg, I. B.
II. Zyzina, T. M.
III. Teregulov, G. I.
IV. ATS-52P66R
V. Associated Technical
Services, Inc.,
East Orange, N. J.

8886692

Office of Technical Services

The Role of Diffusion During Chemical Processing
of Films, by I. B. Blyumberg, T. A. Kovatskaya,
N. A. Genshchikova Obol'yankova, 18 pp.

RUSSIAN, per, Uspekhi Khimich Fotog, Vol IV, 1955,
pp 190 201.

CIA/FDD XX 576

NOT RELEASABLE TO FOREIGN NATIONALS

Sci Physics
Jan 59

USIS INTERNAL USE ONLY

79,682

SLA R-4919

An Experimental Investigation of the Kinetics of Penetration, by G. G. Bazayeva, I. B. Blyumberg, I. M. Davydkin, 5 pp.

RUSSIAN, per, Zhur Prikl Khim, Vol XXXVI, No 7, 1963, pp 1494-1498.

CB

Sci
Sep 64

566,576

61-18285

Blyumberg, I. B., Novatskaya, T. A., and
Obol'yaninova, N. A.
DETERMINATION OF COEFFICIENTS OF DIFFUSION OF ELECTROLYTES IN GELATIN GELS.
[1961] 14p. 9 refs.
Order from OTS or SLA \$1.60 61-18285

Trans. of Leningradskii Instituta Khimicheskoi Fiziki
Trudy (USSR) 1959, v. 5, p. 200-209.

DESCRIPTORS: Photographic emulsions, *Gels, *Diffusion, Water, Refractive index, Salts, *Electrolytes, *Gelatin, Optical analysis, Tables, Numerical analysis, Theory.

A method was adopted for the determination of the coefficient of diffusion, according to Wiener, for an approximate determination of this value for salts in the gelatin gel. The values of the coefficient of diffusion of salts in the gelatin gel are small in short ex- (Chemistry--Physical, TT, v. 6, no. 12) (over)

I. Blyumberg, I. B.
II. Novatskaya, T. A.
III. Obol'yaninova, N. A.

Office of Technical Services

kinetics of Super Highspeed Processing
of Motion Picture and Photographic
Materials, by I. B. Slyuzberg, R. V. Dimitrov,
14 pp.

RUSSIAN, per, Zhur Nauch i Prikl Foto i
Kine, Vol IX, No 5, 1964, pp 336-341.

CIA/FID XX-1709
NO FOREIGN DISSEM

Sci

Jun 65

NO Internal Use Only

281,653

Calculation of Processes of Wet Treatment of
Motion Picture Film, by I. B. Blyumberg, 16 pp.
UNCLASSIFIED.

RUSSIAN, per, Trudy Leningradskogo Instituta
Kinoizhenerov, No 2, 1949, pp 90-98.

CIA/FDD/X-1452

Scientific - Physics

13,262

The Kinetics of High Speed Development, by
I. B. Shvachkin, 9 pp.
RUSSIAN, par. Trety LXXI, No 4, 1961, pp 43-50.

CIA/STANDARD XL-100
NO FOREIGN DISSEM

Sci - Phys
Mar 61
USNS Internal Use Only

253,2562

Investigations of Kinetics of Ultraviolet Development,
by L. B. Ryshkovskiy, R. V. Shadrin, 9 pp.
RUSMAYN, par, Zhur Mouch i Pril Foco i Kboe,
Vol VII, No 2, 1961, pp 161-164.

CIA/TDS XX-1000
NO FOREIGN DISSEM

Sci - Phys
Mar 64
USIS Internal Use Only

252,253

Kinetics of Chemical-Photographic Processing, by
I. B. Blyumberg.
RUSSIAN, per, Zh Nauch Prikl Fotogr Kinematogr,
Vol 9, No 2, 1964, pp 40-132
GB 131/T 4474

I. B. Blyumberg

Sci -
Aug 67

336.670

Investigation of the Quality Of Cinematographic Image,
by I. B. Blyunberg, T. M. Zyazina.

RUSSIAN, per, Uspekhi nauk. Fotogr., Vol 10

1964, pp 50-7

GB 171/T 4817

I.B. Blyunberg-

Sci -

Sep 67

340,093

Charge-Transfer States in Organic Systems, by
V. A. Benderakiy, L. A. Blyumenfeld.
RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXLIV, No 4,
1962, pp 813-816.
NASA TT F-8848

Sci-Chem

May 64

U.S. GOVERNMENT ONLY

259,726

Application of Electron Paramagnetic
Resonance in Chemistry, by L. A. Blyumenfel'd,
V. V. Vovodakiy, 411 pp. 88

RUSSIAN, bk, Primeneniye Elektronogo
Paramagnitnogo Rezonansa v Khimii, 1962,

pp 1-240. P100070067-V

FTD-~~RF~~-64-306

L. A. Blyumenfel'd

Sci - Elect & Elec Eng
Mar 67

320,065

Eosinophilopoiesis in Patients With Acute Hepatitis,
by B. I. Barskiy, N. A. Blyumberg, 3 pp.

RUSSIAN, per, Problemy Gematol i Perel Krovi,
Vol IV, No 2, 1959, pp 34-36.

PP

Sci - Med
Oct 59

99,139

Certain Characteristics of the Clinical
Course of Acute Hapatitides, by B. I.
Barskiy, N. A. Blyumberg and E. T.
Gokhfel'd

RUSSIAN, no per, Voenno Med Zhur,
No 11, Moscow, Nov 1958, pp 22-25

US JPRS 1249-N

Sci-Med
Feb 59

81,378

Cutters for High Speed Machining, by V. A. Blyum-
berg, I. G. Kosmachev, (AF 1016834). 4 pp,

RUSSIAN, bk, Reztsy Dlya ⁴⁵Ekorostnogo Tocheniya,
Moscow, 1953, pp 9-12, CIA 660447

ATIC F-TS-10107/III

Sci - Engineering
Feb 1957 CTS/dex

45, 076

Blyumberg, Ya. B. and Zdanovskii, A. B.
SOLUBILITY IN THE SYSTEM $(\text{NH}_4)_2\text{SO}_4 + 2\text{HCl} =$
 $\text{H}_2\text{SO}_4 + 2\text{NH}_4\text{Cl}$ at 25° . [1963] 9p. 8 refs.
Order from OTS or SLA \$1.10 63-18045

Trans. of Zhurnal Obshchei Khimii (USSR) 1939, v. 9,
no. 9, p. 814-818.

DESCRIPTORS: *Phase studies, *Ammonium compounds,
Sulfates, Chlorides, Hydrochloric acid, *Sulfuric acid,
Solubility.

If the partial pressure of a gas is fixed, a saturation
field in good agreement with the phase-rule can be
obtained for it. Apart from the ordinary solid phase
fields and the field of gaseous HCl, the solubility in
the system $(\text{NH}_4)_2\text{SO}_4 + 2\text{HCl} = \text{H}_2\text{SO}_4 + 2\text{NH}_4\text{Cl}$,
studied with the aid of a Le Chatellier-Yenckel diagram
at $t^\circ = 25^\circ$, also has a nonaqueous field of unsaturated
(Chemistry--Physical, TT, v. 10, no. 6) (over)

63-18045

I. Blyumberg, Ya. B.
II. Zdanovskii, A. B.

144695

Office of Technical Services

Chain Continuation Mechanism in Gaseous Phase
Oxidation of n-Butane

By Yu. D. Norikov, Ye. A. Blyumberg, pp. 7

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 8, 1962, pp. 1357-1364.

CB

340, 753

Sci

Jun 63

Part II. The Publication of EPR to the Solution
of Chemical Problems, by Blyumfelt, Voyevodsky.
RUSSIAN, rpt.
CIA/FDD S-5859

Sci - Chem
May 66

300,565

Factors Reducing Vaccination Immunity Against Diphtheria
by V. D. Balikova-Aldakova, N. F. Blyumel', 6 pp.

RUSSIAN, per, Zhur Mikrobiol Epidemiol i Immunobiol,
Vol XXXII, No 4, 1961, pp 14-19.

PP

Sci

Oct 62

216,050

Common solid catalyst in Silicic-Acetic
Reactions in the Solid Phase, by L. M. Blumen.

RUSKIN, p. 2, West Park Hill, Vol XVI, 1943, p 81.

DSIR HILL N. 1225

Sci - Chem

Oct 62

111,901

Glazed Wall Tiles From Local Low-Fusing point
Clays, by A. A. Kopeikin, L. M. Blyumen, 4 pp.
RUSSIAN, per, Steklo i Keramika, Vol XVII,
No 9, 1960, pp 6-9.

CB

ON THE SELECTION OF CLAYS FOR THE MANUFACTURE
OF KERANZITE GRAVEL, BY L. M. ELYUNEN.

RUSSIAN, PER, STROITEL MATERIALY, VOL VI, NO 11,
1960, PP 32-34.

NEL M. 6290

SCI - CHEM

OCT 62

214,749

The Physicochemical Nature of Clay Bloating -
The Formation of Keramzite, by L. M. Blyumen, 5 pp.

RUSSIAN, per, steklo i Keramika, Vol XVII, No 2,
1960, pp 32-36.

CB

Sci

· Sep 62

210,346

(1950-N)

Excerpts From: "Hemoglobin and Reversible Addition
of Oxygen", by A. A. Blyumenfel'd, 21 pp.

RUSSIAN, bk, Gemoglobin i Obratimoye Prisoyedineniye
Kislороda, Moscow, 1957, pp 7-16, 101-115.

JPRS 1216-N

Sci - Med , hematology
Mar 59

82,377

Electron Paramagnetic Resonance Spectra of
Biological objects -- I. Action of Ionizing Radia-
tion on Dry Amino Acids, Peptides, Proteins and
Lyophilized tissues, by L. A. Blyumenfel'd, A. E.
Kalmanson, 12 pp.

RUSSIAN, per, Biofizika, Vol II, No 5, 1957,
pp 552-565.

Electron Paramagnetic Resonance Spectra of
Biological Objects. Effect of Denaturation on the
e.p.r. Spectra of Irradiated Proteins, by L. A.
Blyumenfel'd, E. A. Kalmanson, 4 pp.

RUSSIAN, per, Biofizika, Vol III, No 1, 1958,
pp 87-91.

Bergamon Inst

(FDD 15674)

Splitting of Porphyrin Rings Under the Effect of Ultrasonic Waves, by I. El'piner, L.A. Elyumenfel'd, S.E. Krasovitskaya, 8 pp.

RUSSIAN, thrice-no per, Dok Ak Nauk SSSR, Vol LXXIX, No 3, Moscow, Jul 1951, pp 495-497.

CIA/FDD/U-3957

New Magnetic Properties of Macromolecular Compounds Containing Conjugated Double Bonds, by
L. A. Elyumenfel'd, A. A. Berlin, A. A. Slinkin,
5 pp.

RUSSIAN, per, Zhur Strukturnoy Khim, Vol I, No 1,
1960, pp 103-108.

CB

Sci
Jul 61

157,541

(10-0373)

Electron Paramagnetic Spectra of Biopolymers.
by L. A. Blyumenfel'd, 31 pp.

RUSSIAN, per, Zhur Vses Khim Obshch Inoni
M. I. Mandelsteyn, Vol VI, No 3, 1961,
pp 319-324. a

JPRS 11030

Sci - Med
Dec 61

176,063

Radio Spectroscopy and Contemporary Theoretical
Chemistry, by L. A. Blyumenfel'd, V. V. Voavodskiy,
13 pp.

RUSSIAN, per, Uspekhi Fiz Nauk, Vol LXVIII, No 1,
1959, pp 31-.

AIP
Sov Phys-Uspekhi
Vol II (68), No 3

Sci

132,169

Nov 60

The Electronic Levels and Absorption Spectra of
Naphthalene, by L. A. Blyumenfel'd.

RUSSIAN, per, Zhur Fiz Khim, Vol XXI, 1947,

AEC Tr

Scientific - Chemistry

CTS Nov 1949

14,789

Effect of Ionized Side Groups on the Magnetic
Properties of Ribonucleic Acid, by L. V. Voznyshaya
L. A. Blyumenfel'd, 3 pp.

RUSSIAN, per, Biofiz, Vol V, No 5, 1960,
pp 579-581.

PP

Sci

Jun 61

156,353

The Electron Paramagnetic Resonance Spectra
of Biological Objects, by Sheng Pei-Ken,
L. A. Blyumenfel'd, A. E. Kalamanson, A. G.
Pavynskiy, et al.

RUSSIAN, per Biofiz, Vol IV, No 3, 1958,
pp 224-274.

Pergamon Press

113, 708

113, 708

Changes in the Magnetic Properties of Yeast
During Growth and Cell Division, by O. P.
Samoilova, L. A. Blyumenfel'd, 5 pp.

RUSSIAN, per, Biofiz, Vol VI, No 1, 1961.

PP

Sci

Jan 62

182.725

The Relation Between the Electrical Conductivity of Organic Substances with Conjugate Bonds and the Electron Magnetic Resonance Spectra, by E.B. L. Tal'roze, L. A. Elyumenfel'd, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, XXXX Vol CXXXV, No 6, 1960, pp 1450-1452.

CB

841

Jul 61

167,430

Blyumenfel'd, L. A.
PARAMAGNETIC RESONANCE SPECTRA OF
BIOLOGICAL OBJECTS AND MIGRATION OF
ENERGY. [1961] 12p. 7 refs.
Order from OTS or SLA \$1.60

61-19575

Trans. of Akad[emiya] Nauk SSSR. Izv[estiya].
Ser[iya] Biol[ogicheskaya] 1957 [v. 22] p. 285-292.

DESCRIPTORS: *Paramagnetic resonance, Biophysics,
Energy, *Tissues (Biology), *Proteins.

(Biological Sciences--General, TT, v. 6, no. 7)

61-19575

1. Blyumenfel'd, L. A.

Office of Technical Services

Electron Paramagnetic Resonance Spectra of
Irridated Denatured and Undenatured Proteins,
by L. A. Blyumenfeld, A. E. Kalmanson, 3 pp.

RUSSIAN, per Dok Ak Nauk, VOL CXVII, no 1,
1957, pp 72-

Amer Inst of Bio Sci

Sci - Medicine
Aug 58

68,927

(NY-6885)

THE MAGNETIC AND ELECTRICAL PROPERTIES
OF MACROMOLECULES, BY L. A. BLYUMENFEL'D,
8 PP.

RUSSIAN, PER, PRIRODA, NOL L, NO 2, 1961,
PP 55-59.

JPRS 12342

SCI - CHEM
FEB 62

183,121

(2330-D)

**Magnetic Resonance in Biology, by L. A.
Blyumenfel'd, 10 pp. UNCL**

**RUSSIAN, per, Vostoik Akademii Nauk SSSR,
Vol XXVIII, No 9, Moscow, 1958, pp 22-29.**

US JPRS 49/-D

~~SECRET~~

**Sci - Biology
Feb 59**

80,595-

Polymers With Conjugated Bonds in Macro-
Molecular Chains. Part IV. Some Peculiarities of Polymeric Compounds Containing Hetero Atoms in a Conjugated Chain,
by L. A. Blyumenfel'd, A. A. Berlin, 5 pp.

RUSSIAN, per, Vysokomolekulyarnyy Soyedin,
Vol. I, No 11, 1959, pp 1647-1651.

ATS-84M40R

Sci
Mar 62
Vol IV, No 2

188,897

States with Charge Transfer in Organic Systems, by
L.A. Blyumenfel'd and V.A. Benderskii, 8 pp.

RUSSIAN, per, Ahur Strukturnoi Khim, Vol I, _v,
No 3, 1963, pp 405-414.

GB

Sci
Jun 64

261,373

Paramagnetic Resonance Spectra of biological Materials. IV. The Action of Ionizing Radiation of Chemically Modified and Denatured Nucleic and Aic Products, by Sheng Poi-ken, L. A. Blyumnenfel'd, et al, 11 pp.

RUSSIAN, per, Biofizika, Vol VI, No 5, 1961.

CB"

Sci
Sep 62

210,467

The Possibility of Various Explanations for the Anomalous Magnetic Properties of Macromolecular Compounds, by L. A. Blyumenfel'd, V. A. Benderskiy, 5 pp.

RUSSIAN, per, Biofiz, Vol VI, No 6, 1961.

Elsevier Pub Co

Sci

Oct 62

213,995

The Importance of New Methods of Bacteriological
Investigation in the Diagnosis of Diphtheria, by N. A.
Pasternak, K. V. Blyumental', 6 pp.

RUSSIAN, per, Zhur Mikrobiol Epidemiol i Immunobiol,
Vol XXXII, No 4, 1961, pp 28-33.

PP

Sci

Oct 62

216,053

The Use of the Tetracycline Group of
Antibiotics and of Erythromycin in
Experimental Diphtheria and in Diphtheria
Carriers, by A. I. Iskrzhitskaya and
K. V. Elyumental', 3 pp.

RUSSIAN, per, Antibiotiki, Vol 'IV, No 4,
1959, pp 59-62.

CB

/64,406

Sci

Aug 61

Complexes of Vinylacetylene With Cuprous Chloride
in Hydrochloric Acid Solutions, by I. M.
Dolgopol'skiy, M. Kh. Blyumental', 5 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXIX, No 8,
1959, pp 2512-2517.

Consultants Bureau

Sci

Aug 60

126,700

Experience in Transfusion of Blood in the Far
North, by R.M. Blyumental'

RUSSIAN no per, Voenno Med Zhur, No 3,
Moscow, March 1958, pp 70

US JPRS/NY 543

Sri-Med
Jul 58

66,796

The Deposition of Halite in Kara-Bogaz Gulf, by
Ya. B. Blyumerg, 2 pp.

X
RUSSIAN, per, Dok Ak Nauk SSSR, Vol XIV, No 5, 1957
1012-1013. 4 pp

Consultants Bureau

Sci-Chem

Aug 58

69. 146

120
Conditions of Imperturbability of the Single-
Rotor Gyrocompass, by G. D. Blyumin & E. V.
Chichinadze, 16 pp.

RUSSIAN, per. AN SSSR. Izvestiya. Mekhanika i
Mashinostroyeniye, No 3, 1964, pp 71-86, 153-
154. P100372667

FTD-MT-64-536

G. D. Blyumin

Sci/Math & Equip
Jan 68

348,351

Conditions for the Stability Against Perturbations of
a Single-Rotor Gyrocompass, by G. D. Blyumin.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Mekh i Mash, pp 71-78.

*FTD-MT-64-536

GOV'T USE ONLY

Sci

Nov 64

The Econometric Trend in Bourgeois Political
Economy, E by I. R S h l y a p e n t e k h, 8 pp.

RUSSIAN, per, Voprosy Ekonomiki, No 11, 1958,
pp 79-93.

International Arts and Sci Press
Vol I, No E //

USSR

Econ

May 59

86,224

The Crisis of Contemporary Bourgeois Political Economy
by I. Blyumin, 5 pp.

RUSSIAN, per, Voprosy Ekou, No 12, 1957, pp 64-75

Interart Arts and Sci Press
Vol I, No 2

USSR

Econ

Use of Transparent Plastics in Stereoscopic
graphic Processing, by H. A. Blyumin, S. P.
FOR OFFICIAL USE ONLY
RUSSIAN, per. Good i Kartograf, Jul 1964,
pp 49-52. 9699549
ESTC 581-765-620.

Blyumin, H.A.

sci - Phys
Feb 66

295,486

Transporting Boats on Underwater Wings, by
V. I. Blumkin.

RUSSIAN, bk.

*CB

~~USSR~~USSR

Econ

Jan 64

NY-2069

Weather Forecast for the European Territory of the
USSR and Western Siberia for April 1958, by L. I.
Blyumina, O. N. Khazova, 12 pp.

RUSSIAN, per, Dolgosrochnyy Prognoz Pogody,
No 4, 1958.

US JPRS/NY-L-567

~~USSR~~

Sci - Geophysics
Dec 58

77,582

NY-2069

Weather Forecast for Seas for April 1958, by
L. I. Blyuzina, 4 pp.

RUSSIAN, per, Dolgosrochnyy Prog Pogody, No 4,
1958.

US JPRS/NY-L-656

USSR
Sci - Geophysics
Dec 58

77,587

The Functional Significance of the Innervation
of the Human Umbilical Cord, by V. N.
Blyumkin, 4 pp.

RUSSIAN, per, Byul Eksper Biol i Med, Vol XLIII,
No 2, Feb 1957, pp 91-94.

Consultants Bureau

Sci - Med

May 58

63,543

Impulse Reactor Utilizing Fast Neutrons, by D. I.
Blokhintsev, G. B. Blokhin, Yu. A. Blyumkina, 29 pp.

RUSSIAN, Seminar on Neutron Physics of Reactors
Utilizing Fast and Intermediate Neutrons Held in
Vienna, Austria, August 3-11, 1961. 9094456

AEC Tr-4843

Sci - Nuc Phys
Dec 61

176,781

Vapor Tension and Fusion Dissociation in the
NaF-AlF₃ System, by M. N. Vetyukov, M. L.
Blyushtein, V. P. Poddymov.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Tsvetnaya
Metal, Vol II, No 6, 1959, pp 126-132.

OPS 6: 27880

Sci

Mar 62

189,542

Vol VII, No 2